ABSTRACT

The present invention provides a translating contact lens having a central axis, an anterior surface and an opposite posterior surface. The anterior surface includes an optical zone and a ramped ridge zone capable of controlling contact lens position on an eye in primary gaze and/or translating amount across the eye when the eye changes from gazing at an object at a distance to gazing at an object at an intermediate distance or at a nearby object. The ramped ridge zone is disposed below the optical zone and includes an upper edge, a lower ramped edge, a latitudinal ridge that extends outwardly from the anterior surface, and a ramp that extends downwardly from the lower ramped edge and has a curvature or slope that ensures a varying degree of interaction between the ramped ridge zone and the lower eyelid depending on where the lower eyelid strikes the ramped ridge zone. The lower eyelid of the eye is engaged with at least some portion of the ramped ridge zone at all times.